NASA

THESAURUS

SUPPLEMENT

JULY 1984

A three part cumulative supplement to the 1982 edition of the NASA Thesaurus

National Aeronautics and Space Administration

Scientific and Technical Information Branch

1984
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INTRODUCTION

The NASA Thesaurus Supplement replaces the former 6-Month Cumulative Listing of the NASA Thesaurus Changes. This cumulative supplement to the NASA Thesaurus 1982 edition, incorporates all of the information normally contained in the previous publication as well as two new features: complete hierarchies and access vocabulary. It is hoped that the additional information and the improved legibility will make this a more useful product than its predecessor. Subsequent issues of the supplement will be cumulative and will be issued every six months. For detailed information on the use of the NASA Thesaurus Supplement, consult the front matter of the NASA Thesaurus 1982 edition.

Users are encouraged to consult the online NASA Thesaurus for the most complete and up-to-date information. Addenda to old hierarchies in the 1982 edition of the NASA Thesaurus are not given because they are readily found in the online NASA Thesaurus. Inclusion of such a feature would have substantially increased the size of the publication. In using the hierarchies in the online NASA Thesaurus, users are cautioned that these hierarchies list broad and narrow terms and not their interrelationships. The online NASA Thesaurus does not show the exact relationship when there are more than three broad and/or narrow terms.

New terms to this issue are indicated with a bullet and larger type. Designed for browsability, each new term appears in the format of the following example:

• Earthnet

Many times cross references are later made postable terms. These are shown in Part 3. When new cross references are added to older terms, the term that is referred to is not listed unless it is also a new term. For older terms check the printed or the online NASA Thesaurus.

Many Comments or suggestions about this publication, including suggestions for new terms, should be directed to the Lexicographer, NASA Scientific and Technical Information Facility, P.O. Box 8757, BWI Airport, Maryland 21240.
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A

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  EUROPEAN AIRBUS
  A-310 AIRCRAFT
  JET AIRCRAFT
  PASSenger AIRCRAFT
  TRANSPORT AIRCRAFT
  SHORT HAUL AIRCRAFT
  EUROPEAN AIRBUS
  A-310 AIRCRAFT
RT INTERNATIONAL COOPERATION
SWEEt WINGS

• A-320 AIRCRAFT
  GS COMMERCIAL AIRCRAFT
  EUROPEAN AIRBUS
  A-320 AIRCRAFT
  JET AIRCRAFT
  PASSenger AIRCRAFT
  TRANSPORT AIRCRAFT
  SHORT HAUL AIRCRAFT
  EUROPEAN AIRBUS
  A-320 AIRCRAFT
RT INTERNATIONAL COOPERATION
SWEEt WINGS

ACCOUNTING
RT BUDGETING
COSTS
FINANCE

ACCRETION DISKS
RT ASTROPHYSICS
BINARY STARS
BLACK HOLES (ASTRONOMY)
DISKS (SHAPES)
ECLIPSING BINARY STARS
GALACTIC NUCLEI
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STELLAR MASS ACCRETION

ACEE PROGRAM
UF AIRCRAFT ENERGY EFFICIENCY
PROGRAM
ENERGY EFFICIENCY TRANSPORT
PROGRAM
GS PROGRAMS
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ACEE PROGRAM
RT AIRCRAFT ENGINES
COMBUSTION EFFICIENCY

ADA (PROGRAMMING LANGUAGE)
GS LANGUAGES
ADA (PROGRAMMING LANGUAGE)
RT COMPUTER PROGRAMMING
EMBEDDED COMPUTER SYSTEMS

AEROASSIST
RT AEROBRAKING
AEROCAPTURE
AEROMANEUVERING
ATMOSPHERIC ENTRY
INTERPLANETARY TRANSFER ORBITS
TRANSFER ORBITS

AEROCAPTURE
RT AEROASSIST
AEROCAPTURE
AEROMANEUVERING
ATMOSPHERIC ENTRY
INTERPLANETARY TRANSFER ORBITS
TRANSFER ORBITS

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RT AERIAL RECONNAISSANCE
GEOmAGNETISM
MAGNETIC ANOMALIES
MAGNETIC SURVEYS
MAGNETIC VARIATIONS
REMOTE SENSING

AERONDEVELOPMENT
RT AEROASSIST
AEROCAPTURE
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INTERPLANETARY TRANSFER ORBITS
TRANSFER ORBITS

AGROELASTIC RESEARCH WINGS
GS AIRFOILS
. WINGS
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AGROPHYSICAL UNITS
RT AGRICULTURE
AGRISTARS PROJECT
FARMLANDS
LARGE AREA CROP INVENTORY
EXPERIMENT

AIR START
GS STARTING
AIR START
RT AIRCRAFT CONTROL
AIRCRAFT ENGINES
ENGINE CONTROL
FLIGHT TESTS

AIRCRAFT ENERGY EFFICIENCY PROGRAM
USE ACEE PROGRAM

AIRCRAFT POWER SUPPLIES
GS ELECTRIC POWER SUPPLIES
. AIRCRAFT POWER SUPPLIES
RT AIRCRAFT EQUIPMENT
AUXILIARY POWER SOURCES
ELECTRIC GENERATORS
POWER SUPPLIES

ALBERTA
GS NATIONS
. CANADA
. ALBERTA

ALLENDE METEORITE
GS CELESTIAL BODIES
. METEORITES
. STONY METEORITES
. CHONDRITES
. CARBONACEOUS CHONDRITES
. ALLENDE METEORITE

ANIK SATELLITES
GS CANADIAN SPACECRAFT
. ANIK SATELLITES
. ANIK 1
. ANIK 2
. ANIK 3
SATELLITES
. ARTIFICIAL SATELLITES
. SYNCHRONOUS SATELLITES
. ANIK SATELLITES
. ANIK 1
. ANIK 2
. ANIK 3
. EARTH SATELLITES
. SYNCHRONOUS SATELLITES
. ANIK SATELLITES
. ANIK 1
. ANIK 2
. ANIK 3
RT INTERNATIONAL COOPERATION
CANADIAN SPACE PROGRAMS
DELTA LAUNCH VEHICLE

ANTISTATIC DEVICES
USE STATIC DISCHARGERS

APL (PROGRAMMING LANGUAGE)
GS LANGUAGES
. PROGRAMMING LANGUAGES
. APL (PROGRAMMING LANGUAGE)
RT COMPUTER PROGRAMMING

ARABSAT
GS SATELLITES
. ARTIFICIAL SATELLITES
. ARABSAT
. EARTH SATELLITES
. ARABSAT
RT INTERNATIONAL COOPERATION

ARC CLOUDS
GS CLOUDS
. CLOUDS (METEOROLOGY)
. CONVECTION CLOUDS
. CUMULONIMBUS CLOUDS
ARC CLOUDS
RT METEOROLOGY
OBSERVATION AIRCRAFT
SATELLITE OBSERVATION

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GS ROCKET VEHICLES
. SOUNDING ROCKETS
. ARIES SOUNDING ROCKET

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GS OBSERVATORIES
. ASTRONOMICAL OBSERVATORIES
. ASTRONOMICAL SATELLITES
. HEAD
. HEAD 1
. HEAD 2
. HEAD 3
. OAO
. OAO 1
. OAO 2
. OAO 3
. OSA
. OSA 1
. OSA 2
. OSA 3
. OSA 4
. OSA 5
. OSA 6
. OSA 7
. OSA 8
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CIRCULATION DISTRIBUTION
RT ATMOSPHERIC CIRCULATION
CIRCULATION
+ DISTRIBUTION
VELOCITY DISTRIBUTION

CLUSTER ANALYSIS
RT CLASSIFICATIONS
IMAGE ANALYSIS
IMAGE PROCESSING
PATTERN RECOGNITION
REMOTE SENSING

COMMAND LANGUAGES
GS LANGUAGES
• COMMAND LANGUAGES
• QUERY LANGUAGES
RT INFORMATION RETRIEVAL

• COMMERCIAL SPACECRAFT
GS COMMERCIAL SPACECRAFT
• RCA SATCOM SATELLITES
COMMERCE
COMMUNICATION SATELLITES
INDUSTRIES
SPACE COMMERCIALIZATION
SPACE INDUSTRIALIZATION
SPACE MANUFACTURING
SPACE PROCESSING

• COMMONALITY
GS STANDARDIZATION
• COMMONALITY
RT AIRCRAFT EQUIPMENT
COST REDUCTION
EFFICIENCY
EQUIPMENT SPECIFICATIONS
GROUND SUPPORT SYSTEMS
SPACECRAFT COMPONENTS
SPECIFICATIONS

COMPULSATORS
RT AC GENERATORS
COMPENSATORS
ELECTRIC POWER SUPPLIES
PULSE GENERATORS

COMPUTATIONAL CHEMISTRY
GS ANALYSIS (MATHEMATICS)
• NUMERICAL ANALYSIS
• COMPUTATIONAL CHEMISTRY
RT CHEMISTRY
COMPUTER TECHNIQUES
COMPUTERIZED SIMULATION
PHYSICAL CHEMISTRY
• TESTS

COMPUTATIONAL GRIDS
UF GRIDS (MATHEMATICS)
• MESH (MATHEMATICS)
RT COORDINATES
MATHEMATICAL MODELS
NUMERICAL ANALYSIS
PROBLEM SOLVING

COMPUTER AIDED DESIGN
UF CAD (DESIGN)
• COMPUTER AIDED DESIGN
• IPAD
RT AIRCRAFT DESIGN
AMPLIFIER DESIGN
COMPUTER GRAPHICS
COMPUTER TECHNIQUES
COMPUTERIZED SIMULATION
• DESIGN
DRAFTING MACHINES
ENGINE DESIGN
HELICOPTER DESIGN
LEN DESIGN
LOFTING
LOGIC DESIGN
MISSILE DESIGN
REACTOR DESIGN
ROBOTICS
SATELLITE DESIGN
SPACECRAFT DESIGN
STRUCTURAL DESIGN

COMPUTER AIDED MANUFACTURING
UF CAM (MANUFACTURING)
GS MANUFACTURING

CONTROLLED SYSTEMS DESIGN

CONTROLLED SYSTEMS DESIGN (CONT.)
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• COMPUTER AIDED MANUFACTURING
RT COMPUTER GRAPHICS
COMPUTER TECHNIQUES
COMPUTERIZED SIMULATION
ROBOTICS

COMPUTER AIDED MAPPING
GS MAPPING
• COMPUTER AIDED MAPPING
RT COMPUTER GRAPHICS
COMPUTER TECHNIQUES
COMPUTERIZED SIMULATION
MAPS
ROBOTICS

• COMPUTERIZED DESIGN
USE COMPUTER AIDED DESIGN

• CONCURRENT PROCESSING
GS DATA PROCESSING
• CONCURRENT PROCESSING
RT ARCHITECTURE (COMPUTERS)
COMPUTER SYSTEMS DESIGN
MULTIPROCESSING (COMPUTERS)
PARALLEL PROCESSING (COMPUTERS)

CONDENSATION NUCLEI
GS CONDENSATION NUCLEI
• AITKEN NUCLEI
RT AEROSOLS
CLOUD PHYSICS
CLOUDS (METEOROLOGY)
• CONDENSATION
CONDENSING
DROPS (LIQUIDS)
ICE NUCLEI
METEOROLOGY
MICROPARTICLES
NUCLEATION
• NUCLEI

CONDENSERS (LIQUEFIERS)
UF CONDENSER RADIATORS
GS CONDENSERS (LIQUEFIERS)
• JET CONDENSERS
RT ABSORBERS (EQUIPMENT)
AIR CONDITIONING
AIR CONDITIONING EQUIPMENT
COLD TRAPS
COLUMNS (PROCESS ENGINEERING)
COMPRESSORS
CONDENSATES
CONDENSERS
CONDENSING
COOLING RINGS
COOLING SYSTEMS
DISTILLATION EQUIPMENT
DRYING APPARATUS
EVAPORATORS
EXHAUST SYSTEMS
FILM CONDENSATION
HEAT EXCHANGERS
HEAT PUMPS
LIQUEFIED GASES
REFRIGERATING MACHINERY
SEPARATORS
SPACECRAFT RADIATORS
VAPORIZERS

CONJUGATE GRADIENT METHOD
GS ANALYSIS (MATHEMATICS)
• NUMERICAL ANALYSIS
• ITERATION
RT • CONJUGATE GRADIENT METHOD
ALGORITHMS
CONJUGATES
GRADIENTS
ITERATIVE SOLUTION

• CONTINENTAL MARGINS
USE CONTINENTAL SHELVES

• CONTINUUM MODELING
RT CONTINUUM MECHANICS
CONTINUUMS
• LARGE SPACE STRUCTURES
MATHEMATICAL MODELS
STRUCTURAL ANALYSIS

• CONTROLLED SYSTEMS DESIGN
GS SYSTEMS ENGINEERING
• NEW TERM

COOLANT LOSS

USE LOSS OF COOLANT

CRACKED WINGS

USE SWEP'T WINGS

CRAY COMPUTERS

GS SUPERCOMPUTERS

. CRAY COMPUTERS

CYCLIC ADENOSINE MONOPHOSPHATE

USE CYCLIC AMP

CYCLIC AMP

UF CYCLIC ADENOSINE MONOPHOSPHATE
GS HETEROCYCLIC COMPOUNDS

. ADENOSINES
. CYCLIC AMP

ORGANIC COMPOUNDS

. CYCLIC COMPOUNDS
. CYCLIC AMP

. NUCLEOTIDES

. CYCLIC AMP

PHOSPHORUS COMPOUNDS

. PHOSPHATES

. NUCLEOTIDES

. ADENOSINES

. CYCLIC AMP

PROTECTIVE

. NUCLEOTIDES

. ADENOSINES

. CYCLIC AMP

DAMAS

USE DEMAND ASSIGNMENT MULTIPLE ACCESS

DATA FLOW ANALYSIS

RT COMPUTER PROGRAMS

COMPUTER SYSTEM PROGRAMS

FLOW CHARTS

NETWORK ANALYSIS

SEQUENTIAL CONTROL

DATA INTEGRATION

RT DATA MANAGEMENT

DATA SIMULATION

RT DATA INTEGRATION

DATA MANAGEMENT

DATA STRUCTURES

GS DATA PROCESSING

DATA STRUCTURES

RT COMPUTER PROGRAMMING

DATA BASES

DEFENSE METEOROLOGICAL SATELLITE PROGRAM

USE DMSP SATELLITES

REQUEST ASSIGNMENT MULTIPLE ACCESS

UF DMAS

GS TELECOMMUNICATION

. MULTIPLE ACCESS

. DEMAND ASSIGNMENT MULTIPLE ACCESS

RT CHANNEL CAPACITY

COMMUNICATION NETWORKS

COMMUNICATION SATELLITES

SATELLITE NETWORKS

DESSERTIFICATION

RT ARID LANDS

BARELAND

NEW TERM

NASA THESAURUS SUPPLEMENT (PART 1)

DESSERTIFICATION (CONT.)

DEATH VALLEY (CA)

DESSERT

DROUGHT

EARTH ENVIRONMENT

GOBI DESERT

LAND

LAND USE

MAN ENVIRONMENT INTERACTIONS

MOJAVE DESERT (CA)

OASES

REMOTE SENSING

SAHARA DESERT (AFRICA)

STEPPE

WADIS

DIFFERENTIATION (BIOLOGY)

GS BIOLOGICAL EFFECTS

. DIFFERENTIATION (BIOLOGY)

DISORIENTATION

. DIFFERENTIATION (BIOLOGY)

PSYCHOLOGICAL EFFECTS

. DIFFERENTIATION (BIOLOGY)

RT JET LAG

PHYSIOLOGICAL RESPONSES

RHYTHM (BIOLOGY)

DIFFERENTIAL ANALYZERS

RT ALGORITHMS

ANALOG COMPUTERS

COMPUTERIZED SIMULATION

DIFFERENTIAL EQUATIONS

DIGITAL COMPUTERS

DIGITAL INTEGRATORS

DIFFERENTIAL ANALYZERS

RT ALGORITHMS

ANALOG COMPUTERS

COMPUTERIZED SIMULATION

DIFFERENTIAL EQUATIONS

DIGITAL COMPUTERS

DIGITAL INTEGRATORS

DIDYMUM

RT LANTHANUM

NEODYMIUM

OPTICAL FILTERS

PRASEODYMIUM

DIFFERENTIAL ANALYZERS

RT ALGORITHMS

ANALOG COMPUTERS

COMPUTERIZED SIMULATION

DIFFERENTIAL EQUATIONS

DIGITAL COMPUTERS

DIGITAL INTEGRATORS

DIKES (GEOLOGY)

USE ROCK INTRUSIONS

DIKES (GEOLOGY)

USE ROCK INTRUSIONS

DINING PHILOSOPHERS PROBLEM

RT DISTRIBUTED PROCESSING

INTERPROCESSOR COMMUNICATION

PROBLEM SOLVING

SYNCHRONISM

DIRECTION FINDING

RT BEARING (DIRECTION)

RADAR DIRECTION FINDERS

SIGNAL PROCESSING

DIRECTIONAL COUPLERS

RT ANTENNA COMPONENTS

COUPLERS

COUPLING

COUPLINGS

IMPEADANCE MATCHING

MICROSTRIP TRANSMISSION LINES

MICROWAVE COUPLERS

TRANSMISSION LINES

YOKES

DIRECTORIES

RT HANDBOOKS

MANUALS

DISTRIBUTED PROCESSING

RT DATA PROCESSING

. DISTRIBUTED PROCESSING

ARCHITECTURE (COMPUTERS)

COMPUTER NETWORKS

COMPUTER SYSTEMS DESIGN

DISTRIBUTED PROCESSING

RT CRYSTAL BALL

DIFFERENTIAL EQUATIONS

DIGITAL COMPUTERS

DIGITAL INTEGRATORS

DISTRIBUTED PROCESSING

RT CRYSTAL BALL

DIFFERENTIAL EQUATIONS

DIGITAL COMPUTERS

DIGITAL INTEGRATORS

DISTRIBUTED PROCESSING
DMSP SATELLITES—(CONT.)
REMOTE SENSING
SATELLITE-BORNE PHOTOGRAPHY

DOUBLE STARS
USE BINARY STARS

· DRAG COEFFICIENTS
SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDED; CONSULT THE TERMS LISTED BELOW)
RT AERODYNAMIC COEFFICIENTS
AERODYNAMIC DRAG
HYDRODYNAMIC COEFFICIENTS

DREDGING
RT ARTIFICIAL HARBORS
HARBORS
MINERAL DEPOSITS
MINING
UNDERWATER RESOURCES

DRONES FOR AERODYNAMIC AND STRUCT TEST
USE DAST PROGRAM

DWARF GALAXIES
GS CELESTIAL BODIES
. . . GALAXIES
. . . DWARF GALAXIES
RT LOCAL GROUP (ASTRONOMY)

EARTHNET
RT EARTH OBSERVATIONS (FROM SPACE)
EARTH RESOURCES
ESA SATELLITES
EUROPEAN SPACE PROGRAMS
LANDSAT SATELLITES
REMOTE SENSORS
SYNTHETIC APERTURE RADAR

EASTERN HEMISPHERE
RT EARTH (PLANET)
GEOGRAPHY
WESTERN HEMISPHERE

EINSTEIN OBSERVATORY
USE HEAD 2

· ELECTRIC AIRCRAFT
USE FLY BY WIRE CONTROL

ELECTRIC FURNACES
GS HEATING EQUIPMENT
. . . FURNACES
. . . ELECTRIC FURNACES
RT MATERIALS
SPACE PROCESSING

· ELECTROCHROMISM
RT COLOR
DISPLAY DEVICES
ELECTRO-OPTICS
ELECTROCHEMISTRY
THIN FILMS

· ELECTRODE MATERIALS
RT ANODS
ANODES
ANODIC COATINGS
CATHODES
CATHODIC COATINGS
CELL ANODES
CELL CATHODES
ELECTRODES
PHOTOELECTRODES
PHOTOELECTRIC CELLS
PHOTOELECTRIC MATERIALS
PHOTOELECTROCHEMICAL DEVICES
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EMBEDDED COMPUTER SYSTEMS
GS DATA PROCESSING EQUIPMENT
. . . COMPUTERS
. . . EMBEDDED COMPUTER SYSTEMS
. . . AIRBORNE/SPACEBORNE COMPUTERS
RT ADA (PROGRAMMING LANGUAGE)

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USE TAIL ASSEMBLIES

ENCKE COMET
GS CELESTIAL BODIES
. . . COMETS
. . . ENCKE COMET

ENERGY EFFICIENCY TRANSPORT PROGRAM
USE ACEE PROGRAM

EURECA (ESA)
UF EUROPEAN RETRIEVABLE CARRIER
GS SPACE PLATFORMS
. . . EURECA (ESA)
RT SPACE SHUTTLES

EUROPEAN LARGE TELECOMM SATELLITE
USE L-SAT

EUROPEAN RETRIEVABLE CARRIER
USE EURECA (ESA)

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EXPERIMENT DESIGN
SN (DESIGN OF EXPERIMENTS EXCLUDES PROTOTYPES)
UF DESIGN OF EXPERIMENTS
GS EXPERIMENT DESIGN
RT COVARIANCE
DEGREES OF FREEDOM
= DESIGN
FACOR ANALYSIS
LABORATORIES
MATHEMATICAL MODELS
OPERATIONS RESEARCH
ORTHOGENALITY
QUALITY CONTROL
REGRESSION ANALYSIS
STATISTICAL ANALYSIS
SYSTEMS ENGINEERING
VARANCE (STATISTICS)

EXPERT SYSTEMS
GS INTELLIGENCE
. . . ARTIFICIAL INTELLIGENCE
. . . EXPERT SYSTEMS
RT COMPUTER PROGRAMMING
= LOGIC
LOGIC PROGRAMMING

EXPLORER 44 SATELLITE
UF SOLRAD 10 SATELLITE
GS SATELLITES
. . . ARTIFICIAL SATELLITES
. . . EXPLORER SATELLITES
. . . EXPLORER 44 SATELLITE

EXPLORER 46 SATELLITE
UF METEOROID TECHNOLOGY SATELLITE
GS SATELLITES
. . . ARTIFICIAL SATELLITES
. . . EXPLORER SATELLITES
. . . EXPLORER 46 SATELLITE

FAR UV SPECTROSCOPIC EXPLORER
GS SATELLITES
. . . ARTIFICIAL SATELLITES
. . . EXPLORER SATELLITES
. . . FAR UV SPECTROSCOPIC EXPLORER

· FASTING
RT AEROSPACE MEDICINE
DIETS
FOOD INTAKE
HYPONIA
FAUNA
USE ANIMALS

FEATUE EXTRACTION
USE PATTERN RECOGNITION

FEATURE IDENTIFICATION AND LOCATION
EXPER
RT EARTH OBSERVATIONS (FROM SPACE)
IMAGE PROCESSING
PATTERN RECOGNITION
REMOTE SENSING
REMOTE SENSORS
SCENE ANALYSIS
SPACE SHUTTLE PAYLOADS

FIRE RETARDANTS
USE FLAME RETARDANTS

FIRMWARE
RT COMPUTER PROGRAMMING
HARDWARE
MICROPROCESSORS
MICROPROGRAMMING

FISCHER-TROPSCH PROCESS
RT CATALYSIS
CATALYTIC ACTIVITY
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SYNTHESIS (CHEMISTRY)
SYNTHETIC FUELS

FLAPERONS
GS AIRFOILS
. . . AILERONS
. . . FLAPERONS
. . . FLAPS (CONTROL SURFACES)
. . . FLAPERONS
. . . CONTROL SURFACES
. . . AILERONS
. . . FLAPERONS
. . . FLAPS (CONTROL SURFACES)
. . . FLAPERONS
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GS THEORETICAL PHYSICS
. . . FLAVOR (PARTICLE PHYSICS)
RT HADRONS
PICTURE INTERACTIONS
PARTICLE PHYSICS
QUANTUM THEORY
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· FLIGHT MANAGEMENT SYSTEMS
GS MANAGEMENT SYSTEMS
. . . FLIGHT MANAGEMENT SYSTEMS
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AIR TRAFFIC CONTROL
AIRBORNE/SPACEBORNE COMPUTERS
AUTOMATIC FLIGHT CONTROL
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AVIONICS
COMPUTER TECHNIQUES
FLIGHT CONTROL
GROUND BASE CONTROL
NAVIGATION AIDS
ONBOARD DATA PROCESSING
SYSTEMS ENGINEERING

· FLOAT ZONES
RT CRYSTAL GROWTH
MELTS (CRYSTAL GROWTH)
SILICON
SOLAR CELLS
SPACE PROCESSING
ZONE MELTING

FLUID MANAGEMENT
RT CRYOGENIC FLUID STORAGE
CRYOGENIC FLUIDS
CRYOGENIC ROCKET PROPELLANTS
FLUID DYNAMICS
FUEL CONTROL
REDUCED GRAVITY

FLUID-SOLID INTERACTIONS
RT GAS-SOLID INTERFACE
LIQUID-SOLID INTERFACES
SURFACE REACTIONS

· FORMYL IONS
GS IONS
. . . FORMYL IONS
RADICALS
. . . FORMYL IONS

· New Term
• New Term

NASA THESAURUS SUPPLEMENT (PART 1)

- **IMAGING RADAR**
  - GS RADAR
  - RT RADAR IMAGERY
  - REMOTE SENSORS
  - SIDE-Looking RADAR
  - SYNTHETIC APERTURE RADAR

- **INDOOR AIR POLLUTION**
  - GS POLLUTION
  - ENVIRONMENT POLLUTION
  - GS SATELLITES
  - INDOOR AIR POLLUTION
  - RT AIR QUALITY
  - AIR SAMPLING
  - BUILDINGS

- **INFORMATION TRANSFER**
  - RT INFORMATION DISSEMINATION
  - INFORMATION FLOW
  - INFORMATION MANAGEMENT
  - INFORMATION RETRIEVAL
  - INFORMATION SYSTEMS
  - INTERNATIONAL COOPERATION
  - TECHNOLOGY TRANSFER
  - TECHNOLOGY UTILIZATION

- **INFRARED SIGNATURES**
  - GS SIGNATURES
  - INFRARED SIGNATURES
  - RT INFRARED DETECTORS
  - INFRARED RADIATION
  - INFRARED SPECTRA
  - SIGNATURE ANALYSIS

- **INSAT SATELLITES**
  - USE INDIAN SPACECRAFT

- **INTEGRAL ROCKET RAMJETS**
  - GS ENGINES
  - AIR BREATHING ENGINES
  - GAS TURBINE ENGINES
  - JET ENGINES
  - RAMJET ENGINES
  - INTEGRAL ROCKET RAMJETS
  - INTERNAL COMBUSTION ENGINES
  - GAS TURBINE ENGINES
  - JET ENGINES
  - RAMJET ENGINES
  - INTEGRAL ROCKET RAMJETS
  - RT SOLID PROPELLANT ROCKET ENGINES
  - TURBINE ENGINES

- **INTEGRALS**
  - RT DIFFERENTIAL EQUATIONS
  - FUNCTIONALS
  - INTEGRAL CALCULUS
  - MATHEMATICS

- **INTEGRATED LIBRARY SYSTEMS**
  - GS INFORMATION SYSTEMS
  - INTEGRATED LIBRARY SYSTEMS
  - RT INFORMATION DISSEMINATION
  - INFORMATION MANAGEMENT
  - INFORMATION RETRIEVAL
  - LIBRARIES
  - ON-LINE SYSTEMS

- **INTERACTIONAL AERODYNAMICS**
  - GS FLUID MECHANICS
  - FLUID DYNAMICS
  - GAS DYNAMICS
  - INTERACTIONAL AERODYNAMICS
  - AIRFOILS
  - COMPUTATIONAL FLUID DYNAMICS
  - FLOW
  - LAMINAR BOUNDARY LAYER

- **INTERDIGITAL TRANSUDCERS**
  - GS TRANSDUCERS
  - INTERDIGITAL TRANSDUCERS
  - RT DIGITAL TRANSDUCERS
  - ELECTROACOUSTIC TRANSDUCERS
  - PIEZOELECTRIC TRANSDUCERS
  - SURFACE ACOUSTIC WAVE DEVICES

- **INTERPERSONAL RELATIONS**
  - USE HUMAN RELATIONS

- **ION SPECTROMETERS**
  - USE MASS SPECTROMETERS

- **IONOPAUSE**
  - SN EXCLUDES PLASMAPAUSE
  - RT COMETARY ATMOSPHERES
  - PLANETARY ATMOSPHERES
  - PLASMAPAUSE
  - SPACE PLASMAS
  - VENUS ATMOSPHERE

- **IRAS-ARAKI-ALCOCK COMET**
  - GS CELESTIAL BODIES
  - COMETS
  - IRAS-ARAKI-ALCOCK COMET
  - RT INFRARED ASTRONOMY SATELLITE
  - SOLAR SYSTEM

- **IRS (INDIAN SPACECRAFT)**
  - USE INDIAN SPACECRAFT

- **J**
  - JAPANESE SPACECRAFT
  - USE MSS (JAPANESE SPACECRAFT)
  - RT SPACECRAFT

- **JUPITER SATELLITES**
  - GS CELESTIAL BODIES
  - NATURAL SATELLITES
  - JUPITER SATELLITES
  - GALILEAN SATELLITES
  - CALLISTO
  - EUROPA
  - GANYMEDE
  - IO
  - RT JUPITER (PLANET)
  - JUPITER RINGS
  - SOLAR SYSTEM

- **K**
  - K-MESONS
  - USE KIONS
  - KAMPUCHA
  - USE CAMBODIA
  - NATIONS
  - KAMPUCHA
  - RT ASIA

- **L**
  - L-SAT
  - USE EUROPEAN LARGE TELECOMM SATELLITE
  - ESA SATELLITES
  - L-SAT
  - SATELLITES
  - ARTIFICIAL SATELLITES
  - COMMUNICATION SATELLITES
  - L-SAT
  - ESA SATELLITES
  - L-SAT
  - RT SATELLITE NETWORKS

- **LANDSAT 4**
  - USE EARTH RESOURCES TECHNOLOGY SATELLITE D
  - ERTS-D
  - GS SATELLITES
  - ARTIFICIAL SATELLITES

- **LANDSAT 4-(CONT.)**
  - USE LANDSAT SATELLITES
  - LANDSAT 4

- **LANDSAT 5**
  - GS SATELLITES
  - ARTIFICIAL SATELLITES
  - LANDSAT SATELLITES
  - LANDSAT 5

- **LANDSAT 5-(CONT.)**
  - USE LANDSAT SATELLITES
  - LANDSAT 5

- **LARGE SPACE TELESCOPE**
  - USE HUBBLE SPACE TELESCOPE

- **LEVITATION MELTING**
  - GS PHASE TRANSFORMATIONS
  - RT LEVITATION MELTING
  - ELECTRIC CURRENT
  - EXTERNAL SURFACE CURRENTS
  - LIQUID METALS
  - LOW GRAVITY MANUFACTURING
  - MAGNETIC SUSPENSION
  - METALLURGY
  - OHMIC DISSIPATION
  - RESISTANCE HEATING
  - SPACE MANUFACTURING
  - SPACE PROCESSING

- **LIGHT VALVES**
  - RT ELECTRO-OPTICS
  - LIGHT MODULATION
  - LIQUID CRYSTALS
  - OPTICAL DATA PROCESSING

- **LIQUID PLUS SOLID ZONES**
  - USE MUSHY ZONES

- **LOCAL GROUP (ASTRONOMY)**
  - GS CELESTIAL BODIES
  - GALAXIES
  - GALACTIC ClUSTERS
  - LOCAL GROUP (ASTRONOMY)
  - ANDROMEDA GALAXIES
  - BARRIED GALAXIES
  - COSMOLOGY
  - DISK GALAXIES
  - DWARF GALAXIES
  - ELLIPTICAL GALAXIES
  - SPIRAL GALAXIES
  - VIRGO GALACTIC CLUSTER

- **LOGIC PROGRAMMING**
  - GS SOFTWARE ENGINEERING
  - RT ARTIFICIAL INTELLIGENCE
  - EXPERT SYSTEMS
  - LOGIC DESIGN

- **LOSS OF COOLANT**
  - USE COOLANT LOSS
  - SN ACCIDENTS
  - RT LOSSES
  - LEAKAGE
  - NUCLEAR REACTORS
  - REACTOR MATERIALS

- **LOW INTENSITY X RAY IMAGING SCOPE**
  - USE LINOSCOPES

- **LOW REYNOLDS NUMBER**
  - SN (RN BELOW 2,000)
  - RT HIGH REYNOLDS NUMBER
  - REYNOLDS NUMBER

- **LUNAR ATMOSPHERE**
  - USE LUNAR IONOSPHERE
  - GS ENVIRONMENTS
  - EXTRATERRESTRIAL ENVIRONMENTS
  - LUNAR ENVIRONMENT
  - LUNAR ATMOSPHERE
  - SATELLITE ATMOSPHERES
  - LUNAR ATMOSPHERE
  - RT MOON
MADAGASCAR

LUNAR ATMOSPHERE-(CONT.)
  PLANETARY ATMOSPHERES

MADAGASCAR
  USE MALAGASY REPUBLIC

MARECS MARITIME SATELLITES

MAGSAT B SATELLITE

MAGELLAN MISSION
  GS SATELLITES
    ARTIFICIAL SATELLITES
    ESA SATELLITES
    MARECS MARITIME SATELLITES
    EARTH SATELLITES
    ESA SATELLITES
    MARECS MARITIME SATELLITES
  RT EXTREME ULTRAVIOLET RADIATION

MAGNETIC BEARINGS
  GS BEARINGS
    MAGNETIC BEARINGS
  RT LEVITATION
    MAGNETIC SUSPENSION

MAGNETIC SUSPENSION

MAGNETOMETERS

MAGNETOMETERS

MANNED MANEUVERING UNITS
  GS EXTRAVEHICULAR MOBILITY UNITS
    ASTRONAUT MANEUVERING
    EQUIPMENT
    MANNED MANEUVERING UNITS
  RT ASTRONAUT LOCOMOTION
    EXTRAVEHICULAR ACTIVITY
    LIFE SUPPORT SYSTEMS
    ORBITAL SERVICING
    SELF MANEUVERING UNITS
    SPACE SUITS

MAPSAT
  GS SATELLITES
    ARTIFICIAL SATELLITES
    MAPSAT
    EARTH SATELLITES
    MAPSAT
  RT LANDSAT SATELLITES
    MAPPING
    REMOTE SENSING
    STEREOPHOTOGRAPHY

MARANGONI CONVECTION
  GS CONVECTION
    MARANGONI CONVECTION
  RT CONVECTIVE FLOW
    FREE CONVECTION
    INTERFACE TENSION
    LOW GRAVITY MANUFACTURING
    METALS (CRYSTAL GROWTH)
    REDUCED GRAVITY
    SPACE PROCESSING

MARECS MARITIME SATELLITES
  GS ESA SPACECRAFT
    ESA SATELLITES
    MARECS MARITIME SATELLITES
    ARTIFICIAL SATELLITES
    COMMUNICATION SATELLITES
    MARECS MARITIME SATELLITES
    EARTH SATELLITES
    COMMUNICATION SATELLITES
    MARECS MARITIME SATELLITES
    ESA SATELLITES
    MARECS MARITIME SATELLITES
    MARECS MARITIME SATELLITES
  RT EUROPEAN SPACE PROGRAMS

MARECS MARITIME SATELLITES-(CONT.)
  SATELLITE NETWORKS

MARINER MARK 2 SPACECRAFT
  RT FLYBY MISSIONS
    INTERPLANETARY FLIGHT
    SPACECRAFT

MEGAMACHINES
  GS LARGE SPACE STRUCTURES
    STRUCTURAL ANALYSIS
    STRUCTURAL ENGINEERING
    TRUSSES

MEMORY (COMPUTERS)
  RT ARCHITECTURE (COMPUTERS)
    COMPUTER DESIGN
    COMPUTER STORAGE DEVICES
    COMPUTERS
    HOLE BURNING
    MAGNETIC DISKS
    VIDEO DISKS

MESFETS
  USE FIELD EFFECT TRANSISTORS

MESHEL (MATHEMATICS)
  USE COMPUTATIONAL GRIDS

MESON RESONANCE
  GS PARTICLES
    ELEMENTARY PARTICLES
    QUARKS
    LEPTONS
    MESON RESONANCE
    MESON RESONANCE
    NUCLEAR PARTICLES
    MESON RESONANCE
    MESON RESONANCE
    X MESONS
    RESONANCE
    RESONANCE
    X MESONS
    BARYONS
    HYPERONS

METALLOPHYLIOLOGY
  RT ABUNDANCE
    CHEMICAL ANALYSIS
    CHEMICAL COMPOSITION
    GALACTIC CLUSTERS
    GALAXIES
    GLOBULAR CLUSTERS
    HYDROGEN
    INTERSTELLAR MATTER
    MASS RATIOS
    METALLIC STARS
    METALS
    SPECTROSCOPIC ANALYSIS
    STAR CLUSTERS
    STARS

METEOROLOGY
  USE EXPLORER 46 SATELLITE

MICROBEATITUDE
  USE MICROBEATITUDE

MICROBEATIVITY
  USE REDUCED GRAVITY

MICROBEATIVITY APPLIQUATIONS
  USE (USE OF A MORE SPECIFIC TERM IS RECOMMENDED-CONSULT THE TERMS LISTED BELOW)

MICROMACHINES
  RT COMPOSITE MATERIALS
    CRACK PROPAGATION
    FRACTURE MECHANICS
    MECHANICAL PROPERTIES
    MICROSTRUCTURE
    REINFORCING FIBERS
    STRESS CONCENTRATION

MICROCLIMATE
  USE CLIMATOLOGY

MILANKOVITCH THEORY
  USE CLIMATOLOGY

MINIMAL SURFACES
  RT BOUNDARY VALUE PROBLEMS
    CONFORMAL MAPPING
    FINITE ELEMENT METHOD
    SURFACES

MISFETS
  USE FIELD EFFECT TRANSISTORS

MIXING DEPTH
  USE MIXING DEPTH

MIXING HEIGHT
  USE MIXING HEIGHT

MOBILE COMMUNICATION SYSTEMS
  GS MOBILE COMMUNICATION SYSTEMS
    LAND MOBILE SATELLITE SERVICE
    COMMUNICATION SATELLITES
    MSAT
    RADIO COMMUNICATION

MODE COUPLING
  USE COUPLED MODES

MOCS (JAPANESE SPACECRAFT)

MOTION SIMULATION
  GS HUMAN FACTORS ENGINEERING
    MOTION SIMULATION
    MOTION SIMULATION
    MOTION SIMULATION
    RT FLIGHT SIMULATION
    FLIGHT SIMULATORS
    MOTION SIMULATORS

MOZAMBIQUE
  GS NATIONS
    MOZAMBIQUE
  RT AFRICA

MUCUS
  GS BODY FLUIDS
  USE MUCUS

MUSHY ZONES
  USE LIQUID PLUS SOLID ZONES

MULTIBEAM ANTENNAS
  RT BEAMS (RADIATION)
    SATELLITE ANTENNAS

Murchison Meteorite
  GS CELESTIAL BODIES
    METEORS
    STONY METEORITES
    CHONDRITES
    CARBONACEOUS CHONDRITES
    MURCHISON METEORITE

NARROWBAND
  GS BANDWIDTH
    NARROWBAND
  RT BROADBAND
    FREQUENCIES

New Term
NUCLEAR MEDICINE
- (CONT.)
  - RADIOLOGY
  - ANTIRADIATION DRUGS
  - HEALTH PHYSICS
  - RADIOPATHOLOGY

NUCLEAR WASTES
USE RADIOACTIVE WASTES

NUMERICAL DATA BASES
GS INFORMATION SYSTEMS
- NUMERICAL DATA BASES
RT INFORMATION RETRIEVAL
ON-LINE SYSTEMS

NUCLEUS

OPEN PROJECT
RT ORIGIN OF PLASMAS IN EARTH NEIGHBORHOOD

OPTICAL BISTABILITY
GS ELECTROMAGNETIC PROPERTIES
  - OPTICAL PROPERTIES
RT HYSTERESIS
INTEGRATED OPTICS
LIGHT TRANSMISSION
NONLINEAR OPTICS
OPTICAL DATA STORAGE MATERIALS
OPTICAL EQUIPMENT
OPTICAL MEASURING INSTRUMENTS
OPTICAL MEMORY (DATA STORAGE)
OPTICAL WAVEGUIDES
SWITCHING CIRCUITS

OPTICAL COMPUTERS
GS DATA PROCESSING EQUIPMENT
  - COMPUTERS
RT COHERENT LIGHT
COMPUTER DESIGN
ELECTRO-OPTICS
OPTICAL EQUIPMENT
OPTICAL MEMORY (DATA STORAGE)

OPTICAL DISKS
GS PERIPHERAL EQUIPMENT (COMPUTERS)
  - COMPUTER STORAGE DEVICES
RT DATA STORAGE
LASER APPLICATIONS
OPTICAL DATA PROCESSING
OPTICAL EQUIPMENT
OPTICAL MEMORY (DATA STORAGE)
VIDEO DISKS

ORATORY
USE PUBLIC SPEAKING

ORBITAL MANEUVERING VEHICLES
RT ORBIT TRANSFER VEHICLES
ORBITAL SERVICING
POWER MODULES (STS)
REMOTELY PILOTED VEHICLES
SATELLITES OF SPACECRAFT

ORIGIN OF PLASMAS IN EARTH NEIGHBORHOOD
USE OPEN PROJECT

OSCILLATOR STRENGTHS
RT ABSORPTION SPECTRA
ABSORPTION
ELECTRON OSCILLATIONS
ELECTRON TRANSITIONS
LINE SPECTRA

POWER FACTOR CONTROLLERS
OSCILLATOR STRENGTHS
- (CONT.)
  - MOLECULAR OSCILLATIONS
  - MOLECULAR OSCILLATORS
  - OSCILLATORS
SPECTRAL LINE WIDTH

PARTICLE LADEN JETS
RT FUEL FLOW
JET FLOW
PARTICLES
TURBULENT FLOW

PAYLOAD TRANSFER
RT ORBITAL SERVICING
PAYLOAD RETRIEVAL (STS)
SPACE MAINTENANCE

PBB
USE POLYBROMINATED BIPHENYLS

PERSONAL COMPUTERS
GS DATA PROCESSING EQUIPMENT
  - COMPUTERS
  - DIGITAL COMPUTERS
  - MICROCOMPUTERS
  - PERSONAL COMPUTERS
RT COMPUTER TECHNIQUES

PHOTOCINEMOMETRY
USE PHOTOGRAMMETRY

PIONEER 12 SPACE PROBE
USE PIONEER VENUS SPACECRAFT

PLASMA ANTENNAS
GS ANTENNAS
PLASMA ANTENNAS
RT ANTELLA DESIGN
ANTENNA RADIATION PATTERNS
PLASMA CYLINDERS
SPACECRAFT COMMUNICATION

PLASMA BUBBLES
RT F REGION
PLASMA DENSITY

POLAR CUSPS
RT AERONOMY
GEOGRAPHIC LATITUDE
GEOGRAPHIC TAIL
GEOGRAPHICISM
GEOPHYSICS
INTERPLANETARY SPACE
LINES OF FORCE
MAGNETIC FIELD CONFIGURATIONS
MAGNETIC FIELDS
MAGNETOPAUSE
MAGNETOSPHERE
PLANETARY MAGNETIC FIELDS
POLAR REGIONS
SPACE PLASMAS

POLARITONS
GS POLARITONS
PLASMS

POLYBROMINATED BIPHENYLS
UF PBB
GS TOXINS AND ANTITOXINS
POLYBROMINATED BIPHENYLS
RT FLAME RETARDANTS
POLYCHLORINATED BIPHENYLS

POWER FACTOR CONTROLLERS
GS CONTROLLERS
POWER FACTOR CONTROLLERS
RT CURRENT REGULATORS
ELECTRIC MOTORS
ENERGY CONSERVATION
ENERGY CONVERSION EFFICIENCY
INDUCTION MOTORS
POWER EFFICIENCY
VOLTAGE REGULATORS
### Public Speaking

#### Pre-Main Sequence Stars
- **GS**: Celestial Bodies
  - Stars
  - Main Sequence Stars
  - Pre-Main Sequence Stars
- **RT**: Stellar Evolution

#### Principal Components Analysis
- **RT**: Image Processing
  - Imaging Techniques
  - Karhunen-Loeve Expansion
  - Pattern Recognition

#### Protocol (Computers)
- **RT**: Channels (Data Transmission)
- **RT**: Communication Networks
- **RT**: Computer Networks
- **RT**: Data Links
- **RT**: Data Processing
- **RT**: Data Transmission
  - Packet Switching

#### Pseudopotentials
- **GS**: Impurities
  - Pseudopotentials
- **RT**: Impurities
  - Melting
  - Semiconductors (Materials)

#### Public Speaking
- **UF**: Oratory
- **RT**: Lectures
  - Speech

#### Pulse Repetition Rate
- **GS**: Rates (Per Time)
  - Pulse Rate
  - Pulse Repetition Rate
- **RT**: Frequency Response
  - Optical Pumping
  - Pulse Duration
  - Pulse Generators
  - Pulsed Lasers

#### P78-2 Satellite
- **Use**: Scathas Satellite

#### Radarsat
- **GS**: Canadian Spacecraft
  - Radarsat

#### Radarsat-(Cont.)
- **RT**: Canadian Space Programs
  - Synthetic Aperture Radar

#### Radiation Medicine
- **Use**: Nuclear Medicine

#### Radiocardiography
- **GS**: Biomedicine
  - Biomechanics
  - Radiocardiography
  - Cardiology
- **RT**: Cardiology

#### Rayleigh-Benard Convection
- **GS**: Convective Flow
  - Free Convection
  - Rayleigh-Benard Convection
  - Fluid Flow
  - Convective Flow
  - Rayleigh-Benard Convection
  - Benard Cells
- **RT**: Convective Heat Transfer
  - Forced Convection
  - Hot Surfaces
  - Laminar Flow
  - Rayleigh Number
  - Thermal Boundary Layer

#### Rearward Facing Steps
- **Use**: Backward Facing Steps

#### Rectangular Waveguides
- **GS**: Transmission Lines
  - Communication Cables
  - Waveguides
  - Rectangular Waveguides
- **RT**: Beam Waveguides
  - Microwave Filters

#### Red Dwarf Stars
- **GS**: Celestial Bodies
  - Stars
  - Dwarf Stars
  - Red Dwarf Stars
- **RT**: Hot Stars
  - Late Stars
  - Main Sequence Stars
  - Stellar Luminosity
  - Stellar Maturity
  - Subdwarf Stars
  - Supernova Remnants
  - White Dwarf Stars

#### Reflection Nebulae
- **GS**: Nebulae
  - Reflection Nebulae
- **RT**: Cosmic Dust
  - Interstellar Matter
  - Light Scattering

#### Reformation
- **GS**: Management
  - Resources Management
  - Forest Management
  - Reformation
- **RT**: Forests
  - Timber Inventory

#### Reverse Switching Rectifiers
- **GS**: Rectifiers
  - Reverse Switching Rectifiers
- **RT**: Crystal Rectifiers
  - Modulators
  - Solid State Devices

#### Robotics
- **RT**: Artificial Intelligence
  - Artificial Theory
  - Automatic Control
  - Computer Aided Design
  - Computer Aided Manufacturing
  - Computer Aided Mapping
  - Computer Vision
  - Man Machine Systems
  - Manipulators
  - Robots
  - Telemotors
  - Voice Control

#### Satellite Doppler Positioning
- **RT**: Doppler Effect
  - Doppler Navigation
  - Doppler Radar
  - Geodesy
  - Geodetic Accuracy
  - Geodetic Coordinators
  - Geodetic Satellites
  - Geodetic Surveys
  - Polystation Doppler Tracking System
  - Positioning
  - Satellite Tracking
  - Tracking (Position)

#### Satellite Imaging
- **RT**: Atmospheric Correction
  - Image Analysis
  - Imaging
  - Imaging Techniques
  - Satellite Observation
  - Satellite Photography
  - Vegetative Index

#### Scandinavia
- **RT**: Denmark
  - Finland
  - Norway
  - Sweden

#### Scarps
- **Use**: Escarpments

#### SDV
- **Use**: Shuttle Derived Vehicles

#### SeaSat 1
- **GS**: Satellites
  - Artificial Satellites
  - SeaSat Satellites
  - SeaSat 1

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**New Term**
SEASAT 1 (CONT.)
- Earth Satellites
- SEASAT 1

RT LANDSAT Satellites
NASA Spacecraft
Oceanography
- Programs
SEASAT-B Satellite

SELECTIVE SURFACES
UF Solar Selective Coatings
RT Energy Absorption Films
Selectivity
Solar Collectors
Solar Energy Absorbers

SELF SHADOWING
RT Large Space Structures
Shadows
Solar Arrays

SEO (Indian Spacecraft)
USE Indian Spacecraft

SFAR
USE Sound Fixing and Ranging

SHELL ANODES
GS Electrodes
- Anodes
- Shell Anodes
RT Heat Measurement

SHIP TO SHORE COMMUNICATION
GS Telecommunication
- Communication
- Ship to Shore Communication
RT Data Transmission
Radio Communication
Ships
Telemetry

SHORT CIRCUIT CURRENTS
GS Electric Current
Short Circuit Currents
RT Open Circuit Voltage
Photovoltaic Cells
Short Circuits
Solar Cells
VOLT-AmperE Characteristics

SHUTTLE DERIVED VEHICLES
UF SDV
GS Manned Spacecraft
- Shuttle Derived Vehicles
Space Shuttle Orbits
Space Shuttles
- Spacecraft
Spacecraft Design

SoboLev SPACE
GS Algebra
- Vector Spaces
- Hilbert Space
- Banach Space
- SoboLev Space
Analysis (Mathematics)
- Function Space
- Hilbert Space
- Banach Space
- SoboLev Space
Functional Analysis
- Hilbert Space
- Banach Space
- SoboLev Space
RT Boundary Value Problems
Euclidean Geometry

SOFAr
USE Sound Fixing and Ranging

SOFTWARE ENGINEERING
GS Software Engineering
- Computer Programming
- Assembler Routines
- Language Programming
- Logic Programming
- Microprogramming
- Multiprogramming
- On-Line Programming
- Parallel Programming
- Symbolic Programming
RT Computer Programs

SOFTWARE ENGINEERING (CONT.)
Computer Systems Design
Computer Systems Programs
Data Bases
Software Tools
Systems Engineering

SOFTWARE TOOLS
RT Architecture (Computers)
Computer Programming
Computer Programs
Computer Systems Design
Computer Systems Programs
Data Base Management Systems
Program Verification (Computers)
Software Engineering

SOLAR BACKSCATTER UV SPECTROMETER
GS Measuring Instruments
- Spectrometers
- Solar Backscatter UV Spectrometer
RT Irradiance
Satellite-Borne Instruments

SOLAR LASERS
USE Solar-Pumped Lasers

SOLAR OPTICAL TELESCOPE
UF SOT
GS Telescopes
- Spaceborne Telescopes
- Solar Optical Telescope
RT Astronomical Telescopes
Solar Instruments
Solar Physics

SOLAR PLANETARY INTERACTIONS
GS Solar Planetary Interactions
- Solar Terrestrial Interactions
RT Magnetic Disturbances
Magnetosphere
Planetary Atmospheres
Planetary Magnetic Fields
Plasma Interactions
Solar Activity
Solar Activity Effects
Solar Corpuscular Radiation
Solar Wind
Solar Wind Velocity

SOLAR RECEIVERS
USE Solar Collectors

SOLAR SELECTIVE COATINGS
USE Selective Surfaces

SOLAR THERMAL ELECTRIC POWER PLANTS
GS Electric Power Plants
- Solar Thermal Electric Power Plants
RT Power Plants
Solar Energy
Thermal Energy

SOLAR-PUMPED LASERS
USE Solar Lasers
GS Stabilized Emission Devices
- Lasers
- Solar-Pumped Lasers
RT Laser Pumping
Optical Pumping
Solar Energy Conversion
Solar Radiation

SOLOD 10 SATELLITE
USE Explorer 44 Satellite

SONIC FATIGUE
USE Acoustic Fatigue

SOT
USE Solar Optical Telescope

SOFTWARE COMMERCIALIZATION
RT Aerospace Industry

SPACE COMMERCIALIZATION (CONT.)
Commercial Spacecraft
Communications Satellites
- Microgravity Applications
Space Industrialization
Space Manufacturing
Space Processing
Spacecraft Launching
Technology Transfer

SPACE HABITUATs
RT Aerospace Environments
Closed Ecological Systems
Life Support Systems
Space Colonies
Space Stations
Spacecrafts

SPACE OPERATIONS CENTER (NASA)
GS Manned Spacecraft
- Space Stations
- Orbital Space Stations
- Space Operations Center (NASA)

SPACE SHUTTLE ORBITER 103
GS Transportation
- Space Transportation
- Space Transportation System
- Space Shuttle Orbiters
- Space Shuttle Orbiter 103
RT Manned Space Flight
Recoverable Spacecraft
Reusable Spacecraft

SPACE SHUTTLE ORBITER 104
GS Transportation
- Space Transportation
- Space Transportation System
- Space Shuttle Orbiters
- Space Shuttle Orbiter 104
RT Manned Space Flight
Recoverable Spacecraft
Reusable Spacecraft

SPACECRAFT EQUIPMENT
GS Onboard Equipment
- Spacecraft Equipment
- Spacecraft Electronic Equipment
RT Equipment
Spacecraft Instruments

SPACECRAFT MAINTENANCE
GS Maintenance
- Spacecraft Maintenance
RT Checkout
PreLaunch Tests
Space Vehicle Checkout Program
Spacecraft Reliability
Turnaround (STs)

SPECTRAL METHODS
RT Computational Fluid Dynamics
Differential Equations
Spectrum Analysis

Spectrophotometrics
RT Energy Conversion Efficiency
Energy Spectra
Solar Cells
Solar Collectors

SPEECHES
USE Lectures

SPRING (season)
GS Seasons
SPRING (season)
RT Autumn
Summer
Winter
STATIC CHARACTERISTICS

• STATIC CHARACTERISTICS
  SN (EXCLUDES STATICS)
  GS STATIC CHARACTERISTICS
  RT STATIC AERODYNAMIC
  CHARACTERISTICS

• STRATEGIC MATERIALS
  RT CRUCIBLES

• STRANGE ATTRACTORS
  GS METALS

• STEREOPHONICS
  RT ACoustics
      HEARING

• STRATEGIC MATERIALS
  RT CHROMIUM
  MANGANESE
  METALS
  STOCKPLUG
  TECHNOLOGY ASSESSMENT

SUPERCOMPUTERS
GS SUPERCOMPUTERS
      CRAY COMPUTERS

SUPERCRITICAL AIRFOILS
GS AIRFOILS
      SUPERCRITICAL AIRFOILS
      SUPERCRITICAL WINGS

SUPERLATTICES
GS CRYSTAL LATTICES
      SUPERLATTICES
      SEMICONDUCTORS (MATERIALS)

SUPERLATTICES
RT CRYSTAL DISLOCATIONS
      CRYSTAL STRUCTURE
      LATTICE PARAMETERS

SURFACE NOISE INTERACTIONS
RT ACOUSTIC EXCITATION
      ACOUSTIC SCATTERING
      AEROACOUSTICS
      AERODYNAMIC NOISE
      TURBULENCE

SWATH WIDTH
RT AGRICULTURAL AIRCRAFT
      FLIGHT PATHS
      REMOTE SENSING
      SATELLITE OBSERVATION

SYMBIOTIC STARS
GS CELESTIAL BODIES
      STARS
      . . BINARY STARS
      SYMBIOTIC STARS
      HOT STARS
      BLUE STARS
      SYMBIOTIC STARS
      PECULIAR STARS
      VARIABLE STARS
      SYMBIOTIC STARS

SYMBIOTIC STARS
RT ABSORPTION SPECTRA
      ECLIPSING BINARY STARS
      EMISSION SPECTRA
      FLARE STARS
      M STARS
      NOVAE
      STELLAR ENVELOPES
      STELLAR MASS ACCRETION
      STELLAR OSCILLATIONS
      STELLAR SPECTRA
      STELLAR TEMPERATURE

T

TAGN
UF TRIAMINOGUANIDINENITRATE
GS OXIDIZERS
      . . ROCKET OXIDIZERS
      . . TAN
      . . PROPELLANTS
      . . TAN
      . . ROCKET PROPPELLANTS

TAN
RT EXPLOSIVES

TAIWAN
UF REPUBLIC OF CHINA
GS NATIONS
      . . TAIWAN

TATB
UF TRIAMINOTRINITROBENZENE
GS EXPLOSIVES
      TATB
      . . PROPELLANTS
      . . ROCKET PROPPELLANTS
      . . TATB
      . . ROCKET OXIDIZERS

TAYLOR-GOERTLER INSTABILITY
USE GOERTLER INSTABILITY

TEARING MODES (PLASMAS)
RT BALLOONING MODES
      MODES

TELEOPERATOR MANEUVERING SYSTEM
USE TELEOPERATORS

TELESCOPING STRUCTURES
USE FOLDING STRUCTURES

TEMPERATURE RATIO
RT DATA CORRELATION
      HEAT TRANSFER
      RATIOS
      TEMPERATURE

THERMAL ANALYSIS
UF DTA (ANALYSIS)
RT ANALYZING
      HEAT TRANSMISSION
      TEMPERATURE GRADIENTS
      TEMPERATURE PROFILES

THRUSTRS
SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDED—CONSULT THE TERMS LISTED BELOW)
RT ION ENGINES
      ROCKET ENGINES

TIME TEMPERATURE PARAMETER
RT AGING (METALLURGY)
      AUSTENITIC STAINLESS STEELS
      EMBRITTLEMENT
      FRACTURE MECHANICS
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RT AIRCRAFT
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GS FIELD THEORY (PHYSICS)
RT UNIFIED FIELD THEORY
EINSTEIN EQUATIONS
ELECTROMAGNETIC FIELDS
ELECTROMAGNETIC INTERACTIONS
ELECTROMAGNETISM
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RELATIVITY
THEORETICAL PHYSICS

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UF USA (UNITED STATES)
GS NATIONS
RT UNITED STATES
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ARKANSAS
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COLORADO
CONNECTICUT
DELAWARE
FLORIDA
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RHODE ISLAND
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VERMONT
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WYOMING

RT ALEUTIAN ISLANDS (US)
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VERY LARGE SCALE INTEGRATION
UF VLSI
GS CIRCUITS
INTEGRATED CIRCUITS
VERY LARGE SCALE INTEGRATION
RT ARCHITECTURE (COMPUTERS)
CHIPS (ELECTRONICS)
LARGE SCALE INTEGRATION

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RT SIGNAL PROCESSING
SIGNAL TRANSMISSION
SIGNALS
VIDEO COMMUNICATION
VIDEO DATA

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RT COMPUTER SYSTEMS DESIGN
DATA HANDLING
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VLSI
USE VERY LARGE SCALE INTEGRATION

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UF VCO
GS OSCILLATORS
VOLTAGE CONTROLLED OSCILLATORS
RT CIRCUITS
ELECTRIC CONTROL
ELECTRIC NETWORKS
FREQUENCY MODULATION
FREQUENCY STABILITY
MICROWAVE OSCILLATORS
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VORTEX PRECESSION
RT FLOW VELOCITY
FLOWMETERS
PRECESSION
VELOCITY MEASUREMENT
VORTICES

WASTE HEAT
RT ENERGY TECHNOLOGY
HEAT EXCHANGERS
NASA THESAURUS SUPPLEMENT

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USE SWEPT WINGS

CRAY COMPUTERS

Currents, Short Circuit
USE SHORT CIRCUIT CURRENTS

Cusps, Polar
USE POLAR CUSPS

Cyber 205 Computer, CDC
USE CDC CYBER 205 COMPUTER

Cycle Engines, Topping
USE Topping CYCLE ENGINES

Cyclic Adenosine Monophosphate
USE CYCLIC AMP

CYCLIC AMP

Cylindrical Coordinates
USE CARTESIAN COORDINATES

Cytoplasma
USE CELLULAR CONTENTS

D

Dahomey
USE BENIN

DAMA
USE DEMAND ASSIGNMENT MULTIPLE ACCESS

DAST PROGRAM

Data, Audio
USE AUDIO DATA

Data Bases, Numerical
USE NUMERICAL DATA BASES

DATA FLOW ANALYSIS

DATA INTEGRATION

(Data Processing), Frames
USE FRAMES (DATA PROCESSING)

DATA SIMULATION

DATA STRUCTURES

Defense Meteorological Satellite Program
USE DMSP SATELLITES

DEMAND ASSIGNMENT MULTIPLE ACCESS

Depth, Mixing
USE MIXING HEIGHT

Derived Vehicles, Shuttle
USE SHUTTLE DERIVED VEHICLES

DESERIFICATION

(Direction), CAD
USE COMPUTER AIDED DESIGN

Design, Computer Aided
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The three part cumulative NASA Thesaurus Supplement to the 1982 edition of the NASA Thesaurus includes Part 1, Hierarchical Listing, Part 2, Access Vocabulary, and Part 3, Deletions. The semiannual supplement gives complete hierarchies for new terms and includes new term indications for terms new to this supplement.